

May 1999

Revised Policy on Exposure Control Location and Operator Protection Effective May 1, 1999

The Virginia Department of Health has addressed the issue of X-ray control switch location in their Radiation Protection Regulations, since 1988. The intent of this regulation was to keep operator exposure levels as low as reasonably achievable (ALARA). Although strict implementation of this regulation ensures operator safety; in many cases it caused unnecessary expense to the registrant with marginal safety benefits to the operator. Therefore, in keeping with the regulatory philosophy of optimizing radiation safety without inflicting unreasonable expense to registrants, the Radiological Health Program issued its first regulatory guidance concerning this issue in April of 1991.

The Program has since obtained further data from both public and private inspectors which requires additional regulatory guidance. These changes are itemized below and reflect the anticipated formal changes to the regulations. The flow chart on the reverse side of this page may also be useful to determine your needs.

- 1. All X-ray machines used in the healing arts (other than mobile or portable units or bone densitometers): If the exposure control is permanently mounted behind a protected barrier so that the operator <u>can</u> remain completely behind the barrier during the entire exposure, then dosimetry is not required unless it is likely the person would receive a dose in excess of 10% of the annual limit. For X-ray machines meeting this requirement and used in the practice of Dentistry, Podiatry, or Veterinary Science, we have concluded that no dosimetry is required.
- 2. For Dental X-ray machines that do not meet the standard set forth in item 1, but have the exposure control <u>permanently</u> located at least 9 feet for the tube housing assembly in its exposure position, no dosimetry is required.
- 3. For Dental X-ray machines <u>installed prior to May 1, 1999</u> that do not meet the standard set forth in item 1 or 2, but have a stretch cord that will allow the operator to be at least 9 feet from the tube housing assembly in its exposure position, dosimetry <u>is</u> required.
- 4. For Podiatry or Veterinary X-ray machines that do not meet the standard set forth in item 1, but have a stretch cord that will allow the operator to be at least 9 feet from the tube housing assembly in its exposure position, dosimetry is required.